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=> s xylulose and reductoisomerase
 L1 139 XYLULOSE AND REDUCTOISOMERASE

=> s l1 and arabidopsis
 L2 16 L1 AND ARABIDOPSIS

=> duplicate remove l2
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 PROCESSING COMPLETED FOR L2
 L3 12 DUPLICATE REMOVE L2 (4 DUPLICATES REMOVED)

=> d l3 1-5

L3 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2003 ACS
 AN 2002:594997 CAPLUS
 DN 137:152492
 TI Transgenic plants carrying expression constructs for seed-specific
 biosynthesis of sterols and tocopherols
 IN Karunanandaa, Balasulojini; Post-Beittenmiller, Martha; Venkatramesh,
 Mylavaram; Kishore, Ganesh M.; Thorne, Gregory M.; Ledeaux, John
 PA Monsanto Technology L.L.C., USA
 SO PCT Int. Appl., 271 pp.
 CODEN: PIXXD2
 DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002061072	A2	20020808	WO 2002-US255	20020104
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRAI	US 2001-260114P	P	20010105		
	US 2001-885723	A	20010620		

L3 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2003 ACS

AN 2002:123201 CAPLUS

DN 136:162385

TI Methyl-D-erythritol phosphate pathway gene gcpe from **Arabidopsis thaliana** and other plants

IN Boronat, Albert; Campos, Narciso; Rodriguez-Concepcion, Manuel; Rohmer, Michel; Seeman, Myriam; Valentin, Henry E.; Venkatesh, Tyamagondlu V.; Venkatramesh, Mylavaram

PA Monsanto Technology, LLC, USA

SO PCT Int. Appl., 155 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002012478	A2	20020214	WO 2001-US24335	20010806
	WO 2002012478	C1	20020704		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2001090522	A5	20020218	AU 2001-90522	20010806
	US 2002069426	A1	20020606	US 2001-921992	20010806
PRAI	US 2000-223483P	P	20000807		
	WO 2001-US24335	W	20010806		

L3 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2003 ACS

AN 2002:792042 CAPLUS

DN 137:306627

TI Enzymes and intermediates of mevalonate-independent isoprenoid biosynthesis and the development of antibiotics

IN Adam, Petra; Amsingler, Sabine; Bacher, Adelbert; Eisenreich, Wolfgang; Hecht, Stefan; Rohdich, Felix

PA Germany

SO Ger. Offen., 78 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI  DE 10201458      A1  20021017      DE 2002-10201458  20020116
    WO 2002083720    A2  20021024      WO 2002-EP4005    20020410
      W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
        CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
        GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
        LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
        PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
        UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,
        TJ, TM
      RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
        CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
        BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRAI DE 2001-10118166 A1  20010411
      DE 2001-10130236 A1  20010622
      DE 2001-10155084 A1  20011109
      DE 2002-10201458 A   20020116
OS   MARPAT 137:306627

L3   ANSWER 4 OF 12  BIOSIS  COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE
      1
AN   2002:522883  BIOSIS
DN   PREV200200522883
TI   Expression and molecular analysis of the Arabidopsis DXR gene
      encoding 1-deoxy-D-xylulose 5-phosphate reductoisomerase
      , the first committed enzyme of the 2-C-methyl-D-erythritol 4-phosphate
      pathway.
AU   Carretero-Paulet, Lorenzo; Ahumada, Ivan; Cunillera, Nuria;
      Rodriguez-Concepcion, Manuel; Ferrer, Albert; Boronat, Albert; Campos,
      Narciso (1)
CS   (1) Departament de Bioquímica i Biologia Molecular, Facultat de Química,
      Universitat de Barcelona, C/Marti i Franques 1, 08028, Barcelona:
      campos@sun.bq.ub.es Spain
SO   Plant Physiology (Rockville), (August, 2002) Vol. 129, No. 4, pp.
      1581-1591. http://www.plantphysiol.org/. print.
      ISSN: 0032-0889.
DT   Article
LA   English

L3   ANSWER 5 OF 12  BIOSIS  COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE
      2
AN   2002:438287  BIOSIS
DN   PREV200200438287
TI   Antisense and chemical suppression of the nonmevalonate pathway affects
      ent-kaurene biosynthesis in Arabidopsis.
AU   Okada, Kazunori (1); Kawaide, Hiroshi; Kuzuyama, Tomohisa; Seto, Haruo;
      Curtis, Ian S.; Kamiya, Yuji
CS   (1) Department of Biology, Tokyo Gakugei University, Nukuikitamachi 4-1-1,
      Koganei-shi, Tokyo, 184-8501: kokada@u-gakugei.ac.jp Japan
SO   Planta (Berlin), (June, 2002) Vol. 215, No. 2, pp. 339-344. print.
      ISSN: 0032-0935.
DT   Article
LA   English

=> d 13 6-10

L3   ANSWER 6 OF 12  BIOSIS  COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN   2001:572878  BIOSIS
DN   PREV200100572878
TI   Method of determining activity of 1-deoxy-D-xylulose-5-phosphate
      reductoisomeras and 1-deoxy-D-xylulose-5-phosphate
      synthase.
AU   Martin, William Frank (1); Hain, Ruediger; Tietjen, Klaus-Guenther; Busch,

```

CS Marco; Kloti, Andreas S.
 (1) Neuss Germany
 ASSIGNEE: Paradigm Genetics, Inc. R.T.P, Washington, NC, USA; Bayer Ag,
 Leverkusen, Germany
 PI US 6303365 October 16, 2001
 SO Official Gazette of the United States Patent and Trademark Office Patents,
 (Oct. 16, 2001) Vol. 1251, No. 3, pp. No Pagination. e-file.
 ISSN: 0098-1133.
 DT Patent
 LA English

L3 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2003 ACS
 AN 2001:115301 CAPLUS
 DN 134:188989
 TI Metabolic pathways and enzymes in isoprenoid biosynthesis and their use in
 screening assays for inhibitors and herbicide resistance
 IN Bacher, Adelbert; Zenk, Meinhard; Eisenreich, Wolfgang; Fellermeier,
 Monika; Fischer, Markus; Hecht, Stefan; Herz, Stefan; Kis, Klaus; Luttgen,
 Holger; Rohdich, Felix; Sagner, Silvia; Schuhr, Christoph A.;
 Wungsintaweekul, Juraithip
 PA Germany
 SO PCT Int. Appl., 194 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2001011055	A1	20010215	WO 2000-EP7548	20000803
	W:				
	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR,				
	CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID,				
	IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV,				
	MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE,				
	SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA,				
	ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,				
	DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,				
	CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	DE 10020996	A1	20010322	DE 2000-10020996	20000428
	EP 1198575	A1	20020424	EP 2000-949452	20000803
	R:				
	AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, SE, MC, PT,				
	IE, SI, LT, LV, FI, RO, MK, CY, AL				
PRAI	DE 1999-19936663	A	19990804		
	DE 1999-19945174	A	19990921		
	DE 1999-19945175	A	19990921		
	DE 1999-19948887	A	19991011		
	DE 1999-19953309	A	19991105		
	DE 2000-10020996	A	20000428		
	WO 2000-EP7548	W	20000803		

RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2003 ACS
 AN 2001:101322 CAPLUS
 DN 134:159474
 TI **Arabidopsis** thaliana 1-deoxy-D-xylulose 5-phosphate
reductoisomerase (DXPR), its sequence, cDNA encoding it,
 recombinant production, method for determining its activity and use of
 method to identify modulators
 IN Hain, Rudiger; Tietjen, Klaus-gunther; Busch, Marco; Martin, William F.;
 Kloti, Andreas S.
 PA Bayer Aktiengesellschaft, Germany; Paradigm Genetics, Inc.
 SO PCT Int. Appl., 29 pp.
 CODEN: PIXXD2

DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001009341	A2	20010208	WO 2000-EP7033	20000721
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	DE 19935967	A1	20010201	DE 1999-19935967	19990730
	US 6303365	B1	20011016	US 1999-449335	19991124
	EP 1204756	A2	20020515	EP 2000-956253	20000721
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
	US 2002058321	A1	20020516	US 2001-923556	20010807
PRAI	DE 1999-19935967	A	19990730		
	US 1999-449335	A	19991124		
	DE 1999-DE19935967A		19990730		
	WO 2000-EP7033	W	20000721		

L3 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2003 ACS

AN 2001:75249 CAPLUS

DN 134:143855

TI 1-Deoxy-D-**xylulose**-5-phosphate **reductoisomerase** and
1-deoxy-D-**xylulose**-5-phosphate synthase assays and their use in
herbicide identification

IN Hain, Ruediger; Tietjen, Klaus-Guenther; Busch, Marco; Martin, William F.

PA Bayer A.-G., Germany

SO Ger. Offen., 16 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19935967	A1	20010201	DE 1999-19935967	19990730
	US 6303365	B1	20011016	US 1999-449335	19991124
	WO 2001009341	A2	20010208	WO 2000-EP7033	20000721
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
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	EP 1204756	A2	20020515	EP 2000-956253	20000721
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
PRAI	DE 1999-19935967	A	19990730		
	US 1999-449335	A	19991124		
	WO 2000-EP7033	W	20000721		

L3 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2003 ACS

AN 2000:772741 CAPLUS

DN 133:330553

TI **Arabidopsis** 1-deoxy-D-**xylulose**-5-phosphate

reductoisomerase cDNA and transgenic plants with enhanced
tocopherol content

IN Lichtenthaler, Hartmut; Schwender, Jorg; Reindl, Andreas; Herbers, Karin

PA BASF Aktiengesellschaft, Germany

SO PCT Int. Appl., 41 pp.

CODEN: PIXXD2

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000065036	A2	20001102	WO 2000-EP3465	20000417
	WO 2000065036	A3	20010419		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	DE 19918949	A1	20001123	DE 1999-19918949	19990427
	EP 1180149	A2	20020220	EP 2000-922642	20000417
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
PRAI	DE 1999-19918949	A	19990427		
	WO 2000-EP3465	W	20000417		

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28.15

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FILE 'BIOSIS' ENTERED AT 11:36:58 ON 29 JAN 2003

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=> d 13 11-12

L3 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2003 ACS

AN 2001:145938 CAPLUS
DN 134:322544
TI Properties and inhibition of the first two enzymes of the non-mevalonate pathway of isoprenoid biosynthesis
AU Mueller, C.; Schwender, J.; Zeidler, J.; Lichtenthaler, H. K.
CS Botanical Institute II, University of Karlsruhe, Karlsruhe, D-76128, Germany
SO Biochemical Society Transactions (2000), 28(6), 792-793
CODEN: BCSTB5; ISSN: 0300-5127
PB Portland Press Ltd.
DT Journal
LA English
RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 12 OF 12 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE
3
AN 1999:377597 BIOSIS
DN PREV199900377597
TI Cloning and heterologous expression of a cDNA encoding 1-deoxy-D-**xylulose**-5-phosphate **reductoisomerase** of **Arabidopsis thaliana**.
AU Schwender, Joerg; Mueller, Christian; Zeidler, Johannes; Lichtenthaler, Hartmut K. (1)
CS (1) Botanisches Institut, Universitaet Karlsruhe, D-76128, Karlsruhe Germany
SO FEBS Letters, (July 16, 1999) Vol. 455, No. 1-2, pp. 140-144.
ISSN: 0014-5793.
DT Article
LA English
SL English

=> d l3 12 ibib ab

L3 ANSWER 12 OF 12 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE
3
ACCESSION NUMBER: 1999:377597 BIOSIS
DOCUMENT NUMBER: PREV199900377597
TITLE: Cloning and heterologous expression of a cDNA encoding 1-deoxy-D-**xylulose**-5-phosphate **reductoisomerase** of **Arabidopsis thaliana**.
AUTHOR(S): Schwender, Joerg; Mueller, Christian; Zeidler, Johannes; Lichtenthaler, Hartmut K. (1)
CORPORATE SOURCE: (1) Botanisches Institut, Universitaet Karlsruhe, D-76128, Karlsruhe Germany
SOURCE: FEBS Letters, (July 16, 1999) Vol. 455, No. 1-2, pp. 140-144.
ISSN: 0014-5793.
DOCUMENT TYPE: Article
LANGUAGE: English
SUMMARY LANGUAGE: English

AB Various plant isoprenoids are synthesized via the non-mevalonate pathway of isopentenyl diphosphate formation. In this pathway, 1-deoxy-D-**xylulose** 5-phosphate (DOXP), the first intermediate, is transformed to 2-C-methyl-D-erythritol 4-phosphate (MEP) by an enzyme which was recently cloned from *Escherichia coli*. In order to find a plant homologue of this 1-deoxy-D-**xylulose** 5-phosphate **reductoisomerase** (DXR) we cloned a cDNA fragment from **Arabidopsis thaliana** which has high homology to the *E. coli* DXR. By expression of this fragment in *E. coli* we could demonstrate that it encodes a protein which transforms DOXP to MEP. The antibiotic fosmidomycin specifically inhibits this DXR enzyme activity.

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IBM Technical Disclosure Bulletins

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DB=USPT,DWPI; PLUR=YES; OP=OR

L16 Herbers-Karin-\$.in.
L15 lichtenthaler-h-\$.in.
L14 lichtenthaler-hartmut-\$.in.
L13 200065036
L12 WO adj 0065036
L11 WO adj 00065036
L10 WO00065036
L9 00065036
L8 reductoisomerase and tocopherol adj content
L7 enhanced adj tocopherol adj content

DB=USPT; PLUR=YES; OP=OR

L6 L5 and isoprenoid
L5 6303365 and reductoisomerase
L4 L3 and reductoisomerase
L3 L2 and transgenic
L2 L1 and plant
L1 6303365

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2 L2
2 L1

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